UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/532,190	04/21/2005	Rolf Koenenkamp	21141/0210503-US0	8427	
7278 DARBY & DA	7590 02/06/200 RBY P.C.	EXAMINER			
P.O. BOX 770	tation	DANG, PHUC T			
Church Street Station New York, NY 10008-0770			ART UNIT	PAPER NUMBER	
				2892	
			MAIL DATE	DELIVERY MODE	
			02/06/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/532,190	KOENENKAMP, ROLF			
Office Action Summary	Examiner	Art Unit			
	Phuc T. Dang	2892			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
earned patent term adjustment. See 37 CFR 1.704(b).  Status					
1) Responsive to communication(s) filed on <u>RCE</u>	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 2-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdrav 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) 2-8 is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers	r election requirement.				
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 21 April 2005 is/are: a) Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti 11) ☐ The oath or declaration is objected to by the Ex	☐ accepted or b)☐ objected to ldrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 12/23/2008.	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:	ate			

Application/Control Number: 10/532,190 Page 2

Art Unit: 2892

### **DETAILED ACTION**

1. This application is a 371 of PCT/DEO3/03673 filed on October 29, 2003.

# **Request for Continued Examination (RCE)**

2. Request for Continued Examination (RCE) filed on December 23, 2008 has been acknowledged and considered.

In Request for Continued Examination (RCE), claims 2-8 are remained for examination at this time.

Claims 2-8 are currently still pending in the application.

### **Information Disclosure Statement**

3. The office acknowledges receipt of the following items from the applicant:

Information Disclosure Statement (IDS) filed on December 23, 2008.

#### **Drawings**

4. The drawings are objected to because there is no figure showing the third insulating layer is deposited on the laminate with subsequent renewed planar etching as claimed in claim 2. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the

Art Unit: 2892

drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

## **Claim Objections**

5. Claim 2 is objected to because of the following informalities:

In claim 2, lines 9-10, the term "... the first metal layer ..." should change to -- ... the first conductive metal layer ... --.

In claim 2, lines 11 and 15, the term "... the metal layer ..." should change to -- ... the first conductive metal layer ... --.

In claim 2, line 17, the term "... a second metal layer ..." should change to -- ... a second conductive metal layer ... --.

## **Allowable Subject Matter**

6. Claims 2-8 would be allowed.

The following is a statement of reason for the indication of allowable subject matter:

Claims 2-8 are considered allowable since the prior art of record and the considered pertinent to the applicant's disclosure does not teach or suggest the claimed invention having the developing laminate is etched planar to the point of the portion of the first metal layer covering the semiconductor columns is removed again; and the end of the first metal layer penetrating to the surface of the laminate are etched back in a metal-specific manner and a third insulating layer

Application/Control Number: 10/532,190 Page 4

Art Unit: 2892

is deposited on the laminate with subsequent renewed planar etching; or the ends of the first conductive metal layer penetrating to the surface of the laminate are converted to an insulator by oxidizing or nitriding as cited in claim 2.

Claims 3-8 are depend on claim 2.

Claim 2 would be allowable if rewritten or amended to overcome the claim objection(s) set forth in this Office action.

#### Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. (U.S. Patent No. 6,379,569 B1) and (U.S. Patent No. 7,259,023 B2).
- 8. Applicants are advised to cancel the non-elected claims 23-34 upon response to the next Office action if the application is considered to be allowed.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuc T. Dang whose telephone number is 571-272-1776. The examiner can normally be reached on 8:00 am-5:00 pm.
- 10. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thao X. Le can be reached on (571) 272-1708. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and Final communications.
- 11. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Application/Control Number: 10/532,190 Page 5

Art Unit: 2892

/Phuc T Dang/

Primary Examiner, Art Unit 2892